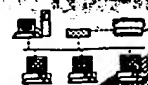


**RAW SEQUENCE LISTING
ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



P#6

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/485,323

Source: 1653

Date Processed by STIC: 3/2/2001

BEST AVAILABLE COPY

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER
VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/485,323

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1653

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/485,323

DATE: 03/02/2001
 TIME: 13:17:34

Input Set : A:\Tu236pc.app
 Output Set: N:\CRF3\03022001\I485323.raw

Does Not Comply
 Corrected Diskette Needed

pp. 2, 5

3 <110> APPLICANT: Niewiarowski, Stefan
 4 Marcinkiewicz, Cezary
 5 Temple University, of the Commonwealth System of Higher Education
 7 <120> TITLE OF INVENTION: EC-3, An Inhibitor of Alpha 4 Beta 1 and Alpha 4 Beta 7
 8 Integrins
 10 <130> FILE REFERENCE: 6056-236PC
 12 <140> CURRENT APPLICATION NUMBER: US/09/485,323
 13 <141> CURRENT FILING DATE: 2000-02-07
 15 <150> PRIOR APPLICATION NUMBER: 60/055,825
 16 <151> PRIOR FILING DATE: 1997-08-15
 18 <150> PRIOR APPLICATION NUMBER: 60/055,957
 19 <151> PRIOR FILING DATE: 1997-08-18
 21 <160> NUMBER OF SEQ ID NOS: 20
 23 <170> SOFTWARE: PatentIn Ver. 2.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 24
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Echis carinatus
 30 <220> FEATURE:
 31 <221> NAME/KEY: VARIANT
 32 <222> LOCATION: (11)
 33 <223> OTHER INFORMATION: K or T
 35 <220> FEATURE:
 36 <221> NAME/KEY: UNSURE
 37 <222> LOCATION: (6)
 38 <223> OTHER INFORMATION: preliminary amino acid sequence
 40 <220> FEATURE:
 41 <221> NAME/KEY: UNSURE
 42 <222> LOCATION: (7)
 43 <223> OTHER INFORMATION: preliminary amino acid sequence
 45 <220> FEATURE:
 46 <221> NAME/KEY: UNSURE
 47 <222> LOCATION: (12)
 48 <223> OTHER INFORMATION: preliminary amino acid sequence
 50 <220> FEATURE:
 51 <221> NAME/KEY: UNSURE
 52 <222> LOCATION: (20)
 53 <223> OTHER INFORMATION: preliminary amino acid sequence
 55 <400> SEQUENCE: 1
 56 Asn Ser Val His Pro Xaa Xaa Asp Pro Val Xaa Xaa Glu Pro Arg Glu
 57 1 5 10 15
 58 Gly Glu His Xaa Ile Ser Gly Pro
 59 20
 63 <210> SEQ ID NO: 2
 64 <211> LENGTH: 67
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Unknown

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/485,323

DATE: 03/02/2001
 TIME: 13:17:34

Input Set : A:\Tu236pc.app
 Output Set: N:\CRF3\03022001\I485323.raw

W--> 68 <220> FEATURE:

W--> 68 <223> OTHER INFORMATION:

68 <400> SEQUENCE: 2

69 Asn Ser Val His Pro Cys Cys Asp Pro Val Lys Cys Glu Pro Arg Glu

70 1 5 10 15

72 Gly Glu His Cys Ile Ser Gly Pro Cys Cys Arg Asn Cys Tyr Phe Leu

73 20 25 30

75 Arg Ala Gly Thr Val Cys Lys Arg Ala Val Gly Asp Asp Val Asp Asp

76 35 40 45

78 Tyr Cys Ser Gly Ile Thr Pro Asp Cys Pro Arg Asn Arg Tyr Lys Gly

79 50 55 60

81 Lys Glu Asp

82 65

85 <210> SEQ ID NO: 3

86 <211> LENGTH: 67

87 <212> TYPE: PRT

88 <213> ORGANISM: Echis carinatus

90 <400> SEQUENCE: 3

91 Asn Ser Val His Pro Cys Cys Asp Pro Val Lys Cys Glu Pro Arg Glu

92 1 5 10 15

94 Gly Glu His Cys Ile Ser Gly Pro Cys Cys Arg Asn Cys Lys Phe Leu

95 20 25 30

97 Asn Ala Gly Thr Ile Cys Lys Arg Ala Met Leu Asp Gly Leu Asn Asp

98 35 40 45

100 Tyr Cys Thr Gly Ile Ser Thr Asp Cys Pro Arg Asn Arg Tyr Lys Gly

101 50 55 60

103 Lys Glu Asp

104 65

107 <210> SEQ ID NO: 4

108 <211> LENGTH: 11

109 <212> TYPE: PRT

110 <213> ORGANISM: Echis carinatus

112 <400> SEQUENCE: 4

113 Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr

114 1 5 10

117 <210> SEQ ID NO: 5

118 <211> LENGTH: 11

119 <212> TYPE: PRT

120 <213> ORGANISM: Echis carinatus

122 <400> SEQUENCE: 5

123 Lys Arg Ala Val Gly Asp Asp Val Asp Asp Tyr

124 1 5 10

127 <210> SEQ ID NO: 6

128 <211> LENGTH: 11

129 <212> TYPE: PRT

130 <213> ORGANISM: Echis carinatus

132 <400> SEQUENCE: 6

133 Lys Arg Ala Met Leu Asp Gly Leu Asn Asp Tyr

134 1 5 10

see item 12 on Error Summary Sheet

RAW SEQUENCE LISTING DATE: 03/02/2001
 PATENT APPLICATION: US/09/485,323 TIME: 13:17:34

Input Set : A:\Tu236pc.app
 Output Set: N:\CRF3\03022001\I485323.raw

```

137 <210> SEQ ID NO: 7
138 <211> LENGTH: 64
139 <212> TYPE: PRT
140 <213> ORGANISM: Vipera lebetina
142 <400> SEQUENCE: 7
143 Asn Ser Gly Asn Pro Cys Cys Asp Pro Val Thr Cys Gln Pro Arg Arg
144   1           5           10           15
146 Gly Glu His Cys Val Ser Gly Lys Cys Cys Arg Asn Cys Lys Phe Leu
147           20           25           30
149 Arg Ala Gly Thr Val Cys Lys Arg Ala Val Gly Asp Asp Met Asp Asp
150           35           40           45
152 Tyr Cys Thr Gly Ile Ser Ser Asp Cys Pro Arg Asn Pro Tyr Lys Asp
153           50           55           60
159 <210> SEQ ID NO: 8
160 <211> LENGTH: 49
161 <212> TYPE: PRT
162 <213> ORGANISM: Eristocophis macmahonii
164 <400> SEQUENCE: 8
165 Gln Glu Glu Pro Cys Ala Thr Gly Pro Cys Cys Arg Arg Cys Lys Phe
166   1           5           10           15
168 Lys Arg Ala Gly Lys Val Cys Arg Val Ala Arg Gly Asp Trp Asn Asp
169           20           25           30
171 Asp Tyr Cys Thr Gly Lys Ser Cys Asp Cys Pro Arg Asn Pro Trp Asn
172           35           40           45
174 Gly
178 <210> SEQ ID NO: 9
179 <211> LENGTH: 49
180 <212> TYPE: PRT
181 <213> ORGANISM: Echis carinatus
183 <400> SEQUENCE: 9
184 Glu Cys Glu Ser Gly Pro Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu
185   1           5           10           15
187 Gly Thr Ile Cys Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys
188           20           25           30
190 Asn Gly Lys Thr Cys Asp Cys Pro Arg Asn Pro His Lys Gly Pro Ala
191           35           40           45
193 Thr
197 <210> SEQ ID NO: 10
198 <211> LENGTH: 70
199 <212> TYPE: PRT
200 <213> ORGANISM: Trimeresurus flavoviridis
202 <400> SEQUENCE: 10
203 Gly Glu Glu Cys Asp Cys Gly Ser Pro Ser Asn Pro Cys Cys Asp Ala
204   1           5           10           15
206 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Asp Gly Leu Cys
207           20           25           30
209 Cys Asp Gln Cys Arg Phe Lys Lys Lys Thr Gly Ile Cys Arg Ile Ala
210           35           40           45
212 Arg Gly Asp Phe Pro Asp Asp Arg Cys Thr Gly Leu Ser Asn Asp Cys

```


RAW SEQUENCE LISTING DATE: 03/02/2001
 PATENT APPLICATION: US/09/485,323 TIME: 13:17:34

Input Set : A:\Tu236pc.app
 Output Set: N:\CRF3\03022001\I485323.raw

```

213      50      55      60
215 Pro Arg Trp Asn Asp Leu
216 65      70
219 <210> SEQ ID NO: 11
220 <211> LENGTH: 68
221 <212> TYPE: PRT
222 <213> ORGANISM: Calloselasma rhodostoma
224 <400> SEQUENCE: 11
225 Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Asp
226 1      5      10      15
228 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
229      20      25      30
231 Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Pro
232      35      40      45
234 Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
235 50      55      60
237 Pro Arg Tyr His
238 65
241 <210> SEQ ID NO: 12
242 <211> LENGTH: 6
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
248 peptide
250 <400> SEQUENCE: 12
251 Gly Arg Gly Asp Ser Pro
252 1      5
255 <210> SEQ ID NO: 13
256 <211> LENGTH: 6
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
262 peptide
264 <400> SEQUENCE: 13
265 Gly Arg Gly Glu Ser Pro
266 1      5
269 <210> SEQ ID NO: 14
270 <211> LENGTH: 4
271 <212> TYPE: PRT
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
276 peptide
278 <400> SEQUENCE: 14
279 Met Leu Asp Gly
280 1
283 <210> SEQ ID NO: 15

```


RAW SEQUENCE LISTING DATE: 03/02/2001
 PATENT APPLICATION: US/09/485,323 TIME: 13:17:34

Input Set : A:\Tu236pc.app
 Output Set: N:\CRF3\03022001\I485323.raw

```

284 <211> LENGTH: 4
285 <212> TYPE: PRT
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
290 peptide
292 <400> SEQUENCE: 15
293 Arg Gly Asp Ser
294 1
297 <210> SEQ ID NO: 16
298 <211> LENGTH: 13
299 <212> TYPE: PRT
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
304 peptide
306 <220> FEATURE:
307 <221> NAME/KEY: DISULFID
308 <222> LOCATION: (1)..(13)
310 <400> SEQUENCE: 16
311 Cys Lys Arg Ala Met Leu Ala Gly Leu Asn Asp Tyr Cys
312 1 5 10
315 <210> SEQ ID NO: 17
316 <211> LENGTH: 13
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
322 peptide
324 <220> FEATURE:
325 <221> NAME/KEY: DISULFID
326 <222> LOCATION: (1)..(13)
328 <400> SEQUENCE: 17
329 Cys Lys Arg Ala Met Leu Asp Gly Leu Asn Asp Tyr Cys
330 1 5 10
333 <210> SEQ ID NO: 18
334 <211> LENGTH: 5
335 <212> TYPE: PRT
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
340 peptide
342 <400> SEQUENCE: 18
343 Met Leu Asp Gly Leu
344 1 5
347 <210> SEQ ID NO: 19
348 <211> LENGTH: 67
349 <212> TYPE: PRT
350 <213> ORGANISM: Echis carinatus

```

FYI

Please Note:

Use f n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequenc Listing t ensure that a c rresp nding explanation is presented in the <220> t <223> fields of each sequence which presents at least ne n r Xaa.

VERIFICATION SUMMARY DATE: 03/02/2001
PATENT APPLICATION: US/09/485,323 TIME: 13:17:35

Input Set : A:\Tu236pc.app
Output Set: N:\CRF3\03022001\I485323.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:68 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:68 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20